Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (currently amended) A thin film magnetic head comprising:
a read unit, formed above a substrate, having a lower shield, a read element
and an upper shield; and

a write unit having a lower pole piece, an upper pole piece, and a coil placed between said lower pole piece and said upper pole piece,

said read unit and said write unit being separated from each other with a non-magnetic material;

wherein at least one of said lower shield and upper shield has a first layer and a second layer formed from magnetic material; and

wherein the coefficient of thermal expansion of said first layer is different from the coefficient of thermal expansion of said second layer.

wherein a magnetic material having a low coefficient of thermal expansion of 11.5 x 10⁻⁶/K or less is used for forming at least part of the lower shield or the upper shield.

- 2. (currently amended) A thin film magnetic head according to claim 1, wherein said magnetic material having low coefficient of thermal expansion second layer is a crystalline magnetic alloy.
- 3. (currently amended) A thin film magnetic head according to claim 1, wherein said magnetic material having low coefficient of thermal expansion second layer is a NiFe alloy having a composition comprising 30 to 55 wt% Ni.
 - 4. (canceled)
 - 5. (canceled)

- 6. (currently amended) A thin film magnetic head according to claim 1, wherein at least one of said lower shield and said upper shield is a laminated film consisting of a layer formed from said magnetic material having low coefficient of thermal expansion and a layer said first layer is formed from a NiFe alloy having a composition mainly comprising 80 wt% Ni, said 80 wt% NiFe alloy layer facing to said read element.
- 7. (currently amended) A thin film magnetic head according to claim 6, wherein said magnetic material having low coefficient of thermal expansion second layer is a crystalline magnetic alloy.
- 8. (currently amended) A thin film magnetic head according to claim 6, wherein said magnetic material having low coefficient of thermal expansion second layer is a NiFe alloy having a composition comprising 30 to 55 wt% Ni.
- 9. (currently amended) A thin film magnetic head according to claim [[6]] 1, wherein a ratio of a thickness of said second layer magnetic material having low eoefficient of thermal expansion to a sum of thicknesses of said lower shield and said upper shield is 30% or more.
- 10. (currently amended) A thin film magnetic head according to claim 9, wherein said magnetic material having low coefficient of thermal expansion second layer is a crystalline magnetic alloy.
- 11. (currently amended) A thin film magnetic head according to claim 9, wherein said magnetic material having low coefficient of thermal expansion second layer is a NiFe alloy having a composition comprising 30 to 55 wt% Ni.
- 12. (withdrawn) A thin film magnetic head comprising:
 a read unit, formed above a substrate, having a lower shield, a read element,
 and an upper shield; and

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a write unit having a lower pole piece, an upper pole piece, and a coil placed between said lower pole piece and said upper pole piece,

said read unit and said write unit being separated from each other with a non-magnetic material;

wherein a side shield is provide on each side of said read element, part of said side shield being formed from a magnetic material having a low coefficient of thermal expansion of 11.5×10^{-6} /K or less.

- 13. (currently amended) A disk storage device comprising:
- a recording medium;
- a drive motor for driving said recording medium;
- a magnetic head for reading and writing data from and on said recording medium;
 - a positioning mechanism for positioning said magnetic head;
- a first circuit system for controlling said recording medium, said drive motor, said magnetic head, and said positioning mechanism; and
- a second circuit system for supplying a write signal to said magnetic head and processing a read signal from said magnetic head;

wherein said magnetic head comprises:

a read unit, formed above a substrate, having a lower shield, a read element and an upper shield; and

a write unit having a lower pole piece, an upper pole piece, and a coil placed between said lower pole piece and said upper pole piece,

said read unit and said write unit being separated from each other with a non-magnetic material;

wherein at least one of said lower shield and upper shield has a first layer and a second layer formed from magnetic material; and

wherein the coefficient of thermal expansion of said first layer is different from the coefficient of thermal expansion of said second layer.

a magnetic material having a low coefficient of thermal expansion of 11.5 x 10⁻⁶/K or less used for forming at least part of the lower shield or the upper shield.

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14. (canceled)

- 15. (new) A thin film magnetic head according to claim 1, wherein the coefficient of thermal expansion of said second layer is 11.5×10^{-6} /K or less.
- 16. (new) A thin film magnetic head according to claim 1, wherein the coefficient of thermal expansion of said first layer is larger than the coefficient of thermal expansion of said second layer.
- 17. (new) A thin film magnetic head according to claim 16, wherein said first layer is formed between said second layer and said read element.
- 18. (new) A thin film magnetic head according to claim 17, wherein said first layer and said second layer are magnetically connected.
- 19. (new) A disk storage device according to claim 13, wherein the coefficient of thermal expansion of said second layer is 11.5×10^{-6} /K or less.
- 20. (new) A disk storage device according to claim 13, wherein the coefficient of thermal expansion of said first layer is larger than the coefficient of thermal expansion of said second layer.
- 21. (new) A disk storage device according to claim 20, wherein said first layer is formed between said second layer and said read element.
- 22. (new) A disk storage device according to claim 21, wherein said first layer and said second layer are magnetically connected.